

an optical fiber having a proximal end and a distal end,
said optical fiber terminating at the proximal end in the laser
connector and terminating at the distal end in the handpiece,
said optical fiber forming a lenseless optical path for
transmitting laser light from a laser source to an eye to be
treated;

said optical fiber extending through the handpiece body
and at least partially through the handpiece tip, said tip having
a proximal end and a distal end, said tip also including a fluid
path from the distal end thereof to the interior of the handpiece
body;

said handpiece body having a fluid path in fluid
communication with the fluid path of the tip, said handpiece body
fluid path extending to the exterior of the handpiece, whereby
fluid in the eye may flow through the tip and the handpiece body
while laser light from the laser source is directed by the
optical fiber into the eye;

[The laser delivery system as set forth in claim 1
wherein the] said handpiece body fluid path [includes] including
a cavity inside the handpiece body and a port connecting said
cavity to the exterior of the handpiece, said cavity being larger
in cross-section than the fluid path in the handpiece tip.

13. (Twice Amended) A laser delivery system for
ophthalmic surgery and the like comprising:

1 a handpiece having a handpiece body by means of which
the handpiece may be held and manipulated by a user and a hollow

tip of a size suitable for insertion into a human eye, said hollow tip extending distally from the handpiece body;

P | a laser connector for connection directly to a laser source;

P | an optical fiber having a proximal end and a distal end, said optical fiber terminating at the proximal end in the laser connector and terminating at the distal end in the handpiece, said optical fiber forming a lenseless optical path for transmitting laser light from a laser source to an eye to be treated;

P | said optical fiber extending through the handpiece body and at least partially through the handpiece tip, said tip having a proximal end and a distal end, said tip also including a fluid path from the distal end thereof to the interior of the handpiece body;

P | said handpiece body having a fluid path in fluid communication with the fluid path of the tip, said handpiece body fluid path extending to the exterior of the handpiece, whereby fluid in the eye may flow through the tip and the handpiece body while laser light from the laser source is directed by the optical fiber into the eye;

[The laser delivery system as set forth in claim 1 wherein the] P | said handpiece body fluid path [includes] including a cavity inside the handpiece body, said cavity being larger in cross-section than the fluid path in the handpiece tip, a bore extending from the cavity to the exterior of the handpiece, and a

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tube for providing fluid communication between the bore and a suction source.

15. (Twice Amended) A laser delivery system for ophthalmic surgery and the like comprising:

p a handpiece having a handpiece body by means of which the handpiece may be held and manipulated by a user and a hollow tip of a size suitable for insertion into a human eye, said hollow tip extending distally from the handpiece body;

p a laser connector for connection directly to a laser source;

p an optical fiber having a proximal end and a distal end, said optical fiber terminating at the proximal end in the laser connector and terminating at the distal end in the handpiece, said optical fiber forming a lenseless optical path for transmitting laser light from a laser source to an eye to be treated;

p said optical fiber extending through the handpiece body and at least partially through the handpiece tip, said tip having a proximal end and a distal end, said tip also including a fluid path from the distal end thereof to the interior of the handpiece body;

p said handpiece body having a fluid path in fluid communication with the fluid path of the tip, said handpiece body fluid path extending to the exterior of the handpiece, whereby fluid in the eye may flow through the tip and the handpiece body while laser light from the laser source is directed by the optical fiber into the eye;

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[The laser delivery system as set forth in claim 1] further including means for removably securing an intermediate portion of the optical fiber in a fixed position with respect to an operating field, said intermediate portion of the optical fiber being disposed exteriorly of the handpiece.

28 34. (Amended) A method of performing ophthalmic surgery comprising:

inserting the distal end of a probe into the interior of an eye;

aspirating material out of the interior of the eye through the probe;

applying laser energy through the probe into the interior of the eye, without replacing said probe;

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[The method as set forth in claim 30] further including [the step of] infusing medication through the probe into the eye during surgery.

36 36. (Amended) A method of performing ophthalmic surgery comprising:

inserting the distal end of a probe into the interior of an eye;

aspirating material out of the interior of the eye through the probe;

applying laser energy through the probe into the interior of the eye, without replacing said probe;

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[The method as set forth in claim 30] further including [the step of] delivering an adhesive through the probe into the